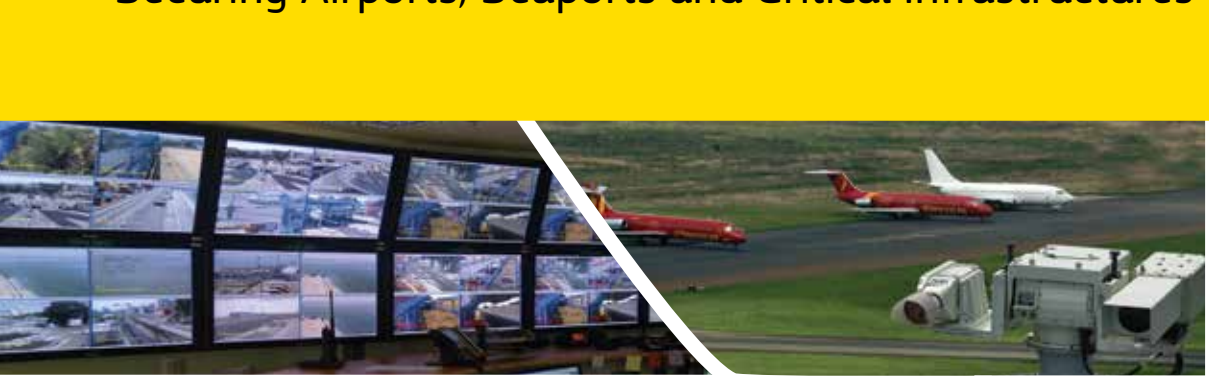
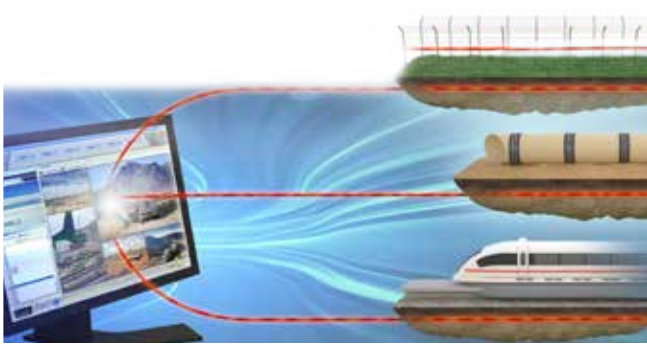
Critical Infrastructure Protection

Securing Airports, Seaports and Critical Infrastructures





Detect. Verify. Respond. Control.

The Challenge: Critical Infrastructure Protection (CIP)

The growing global challenges in the areas of security and HLS, require rapidly advancing solutions for critical site and infrastructure protection. Authorities need comprehensive solutions capable of detecting an event, identifying and classifying it, alerting all relevant systems and responding accordingly, in real-time. Achieving this level of control is one of the greatest challenges faced by authorities today.

The Solution: ELSEC's CIP Solution

Leveraging decades of experience, expert methodologies and technological superiority in the field of security electro-optics and software, ELSEC's CIP Solution creates a tailored security net around critical infrastructures, land, sea and aerial, to provide security and HLS authorities with complete control over the site.

At the core of this solution, the C2π, ELSEC's Integrative Security Management C2 System, integrates the many elements involved into a single consolidated situational view of the site. The various layers of protection are assembled around the C2π according to predefined requirements, including in-house subsystems and integrated technologies.

Elbit Systems™
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Capabilities: A Tailored Solution

Technological Building Blocks

- **Access Control -** Electronic fences, underwater and underground sensors and virtual barriers
- **Observation -** Advanced electronic and electro-optical sensors, imaging sensor and CCTV
- **Analysis -** Image and video analysis with video motion detection
- **Control -** Central Command & Control application with networking capabilities
- **Response -** Real-time response management tools, operating in accordance with tailored SOP
- **Maintenance -** Web-based maintenance interface, for efficient Time-To-Service

Expert Services

- **Risk Assessment -** Learn the site and understand the challenges
- **CONOP -** Create a research-based Concept of Operations
- **Integration -** Integrate a wide range of technologies developed in-house and by various manufacturers
- **SOP -** Develop and implement Standard Operating Procedures into C2π C2 System, to support operators' decision-making processes, including alerts, information distribution and automatic commands

* All solutions comply with seaport and airport security regulations, including ISPS code, ICAO, ECAC, IATA, ACI and local safety requirements.

Case Study: Main National Seaport

Challenges:
- A combination of civilian and military perimeters with different security challenges
- Separate entities, maintaining essential cooperation
- Maritime environment, bordering with a densely populated city and train line

Solution:
- Individual solutions tailored to each perimeter's security challenges
- Enabling required cooperation while maintaining individual security levels
- Successful integration of dozens of products and technological infrastructures, developed in-house and by various manufacturers

Components:
- C2π ELSEC's Integrative Security Management C2 System
- Main Command and Control Center
- Smart Perimeter Fence adapted to the maritime environment and bordering train line (false positive prevention)
- Underwater Perimeter Protection based on unique underwater sensors
- Barriers and Hydraulic Gates
- Day/Night Cameras, Closed-Circuit Television (CCTV) and Thermal Imaging, all support fixed or Pan-Tilt-Zoom configurations
- Floodlights and PA Systems
- Video Motion Detection System

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